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[54] **ACOUSTIC ELEMENT TESTER FOR AN ARRAY OF HYDROPHONES**

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[58] **Field of Search** ..... **367/13; 73/1 DV**

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[57] **ABSTRACT**

An apparatus for testing an individual hydrophone element in an axially extending hydrophone array includes a pressure wave generator, an insonifier for directing the generated pressure waves toward a selected one of the elements of the array and a monitor for measuring the output of the array responsive to the generated arrays. The pressure wave generator is isolated so it does not produce pressure waves externally thereto. The insonifier includes a housing with an axially extending through aperture for receiving the array and a chamber formed in the housing with a first port connecting with the pressure wave generator and a second port connecting with the axially extending aperture so that the generated pressure waves insonify a selected one of the hydrophone elements disposed proximate the second port. The monitor enables the user to check the wiring of each of the elements for proper phase alignment of the elements and to test the sensitivity of each of the elements as they correspond to the input pressure waves.

**20 Claims, 2 Drawing Sheets**

